



RECEIVED

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TECH CENTER 1600/2800

1
SEQUENCE LISTING

> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 19

<170> PatentIn Ver. 2.1

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<223> Myosin light chain 1

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<223> May be any amino acid.

<220>
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<222> (2)
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<222> (7)
<223> May be either Pro or Ala.

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<222> (1)

<223> May be any amino acid.

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<223> malate dehydrogenase

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<213> Unknown

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<223> May be any amino acid.

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Xaa Ala His Lys Ser Glu Ile Ala His Arg
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<222> (4)

<223> May be Arg or Leu.

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<213> Unknown

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<220>

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<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

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1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
 195 200 205

Ser

<210> 9
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 <223> Human slow skeletal troponin I

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 <306> 346-357
 <307> Jul-1990

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Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
 20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
 85 90 95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
 100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
 115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
 130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
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<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

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Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30

Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Glu Ser Glu Ser

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<304> 30
<305> 3
<306> 707-712
<307> 1991-01-22

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 20           25           30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35           40           45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50           55           60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65           70           75           80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85           90           95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
100           105          110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
115           120          125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
130           135          140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145           150          155          160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
165           170          175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
180           185          190

Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Phe

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195

200

205

Glu Gly
210

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<303> J. Biol. Chem.
<304> 264
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<306> 14327-14333
<307> 1989-08-25

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Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
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Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
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Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln

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185

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20 25 30
Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
35 40 45
Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
50 55 60
Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
65 70 75 80
Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
85 90 95
Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
100 105 110
Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
115 120 125
Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
130 135 140
Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145 150 155 160
Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175
Phe Glu Ser Glu Ser
180

<210> 14
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<300>

<303> FEBS Lett.

<304> 328

<305> 1-2

<306> 139-144

<307> 1993-08-09

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35 40 45Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
50 55 60Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
65 70 75 80Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
85 90 95Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
100 105 110Lys Lys Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
115 120 125Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
130 135 140Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
145 150 155 160Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
165 170 175Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
180 185 190Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys
195 200 205Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
210 215 220

Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr

225	230	235	240
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Asn Leu Glu Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln			
245	250	255	

Lys Tyr Glu Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys			
260	265	270	

Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys			
275	280	285	

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<303> J. Biol. Chem.

<304> 262

<305> 33

<306> 16122-16126

<307> 1987-11-25

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Ala Ala Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala			
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Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro			
35	40	45	

Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp			
50	55	60	

Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu			
65	70	75	80

Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val			
85	90	95	

Ala Leu Lys Glu Arg Ile Glu Arg Arg Arg Ser Glu Arg Ala Glu Gln			
100	105	110	

Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala			
115	120	125	

Glu Glu Lys Met Arg Lys Glu Glu Glu Ala Lys Lys Arg Ala Glu			
130	135	140	

Asp Asp Ala Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe

145	150	155	160
Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr			
165	170	175	
Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu			
180	185	190	
Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp			
195	200	205	
Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu			
210	215	220	
Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met			
225	230	235	240
Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg			
245	250	255	
Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val			
260	265	270	
Gly Gly Arg Trp Lys			
275			

<210> 16
 <211> 257
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<220>
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<300>
 <303> DNA Cell Biol.
 <304> 13
 <305> 3
 <306> 217-233
 <307> MAR-1994

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Glu Ala Gln Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
 20 25 30

Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
 35 40 45

Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
 50 55 60

Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala

65	70	75	80
Arg Lys Lys Glu Glu Glu Glu Leu Val Ala Leu Lys Glu Arg Ile Glu			
85	90	95	
Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu Lys			
100	105	110	
Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg Glu			
115	120	125	
Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys Lys			
130	135	140	
Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys Ala			
145	150	155	160
Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys Lys			
165	170	175	
Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Gly Glu			
180	185	190	
Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Glu Thr Leu His Gln			
195	200	205	
Leu Glu Ile Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln Lys			
210	215	220	
Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys His			
225	230	235	240
Ser Lys Lys Ala Gly Thr Pro Ala Lys Gly Lys Val Gly Gly Arg Trp			
245	250	255	
Lys			

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 <306> 14471-14477
 <307> 1989-08-25

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				20			25					30			
Glu	Glu	Asp	Gly	Glu	Ala	Glu	Pro	Asp	Pro	Glu	Gly	Glu	Ala	Glu	Ala
				35			40					45			
Glu	Glu	Asp	Lys	Ala	Glu	Glu	Val	Gly	Pro	Asp	Glu	Glu	Ala	Arg	Asp
				50			55					60			
Ala	Glu	Asp	Gly	Pro	Val	Glu	Asp	Ser	Lys	Pro	Lys	Pro	Ser	Arg	Leu
				65			70				75				80
Phe	Met	Pro	Asn	Leu	Val	Pro	Pro	Lys	Ile	Pro	Asp	Gly	Glu	Arg	Val
					85				90					95	
Asp	Phe	Asp	Asp	Ile	His	Arg	Lys	Arg	Met	Glu	Lys	Asp	Leu	Asn	Glu
					100				105				110		
Leu	Gln	Thr	Leu	Ile	Glu	Ala	His	Phe	Glu	Asn	Arg	Lys	Lys	Glu	Glu
				115				120				125			
Glu	Glu	Leu	Ile	Ser	Leu	Lys	Asp	Arg	Ile	Glu	Lys	Arg	Arg	Ala	Glu
				130			135				140				
Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Asn	Glu	Arg	Glu	Lys	Glu	Arg	Gln
				145			150				155				160
Asn	Arg	Leu	Ala	Glu	Glu	Arg	Ala	Arg	Arg	Glu	Glu	Glu	Glu	Asn	Arg
					165				170					175	
Arg	Lys	Ala	Glu	Asp	Glu	Ala	Arg	Lys	Lys	Lys	Ala	Leu	Ser	Asn	Met
					180				185				190		
Met	His	Phe	Gly	Gly	Tyr	Ile	Gln	Lys	Ala	Gln	Thr	Glu	Arg	Lys	Ser
					195				200				205		
Gly	Lys	Arg	Gln	Thr	Glu	Arg	Glu	Lys	Lys	Lys	Ile	Leu	Ala	Glu	
				210			215				220				
Arg	Arg	Lys	Val	Leu	Ala	Ile	Asp	His	Leu	Asn	Glu	Asp	Gln	Leu	Arg
					225			230			235			240	
Glu	Lys	Ala	Lys	Glu	Leu	Trp	Gln	Ser	Ile	His	Asn	Leu	Glu	Ala	Glu
					245				250				255		
Lys	Phe	Asp	Leu	Gln	Glu	Lys	Phe	Lys	Gln	Gln	Lys	Tyr	Glu	Ile	Asn
					260			265				270			
Val	Leu	Arg	Asn	Arg	Ile	Asn	Asp	Asn	Gln	Lys	Val	Ser	Lys	Thr	Arg
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<220>
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<300>
<303> J. Mol. Biol.
<304> 188
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<306> 313-324
<307> 1986-04-05

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Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
35 40 45

Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
50 55 60

Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
65 70 75 80

Ala Arg Lys Lys Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
85 90 95

Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
100 105 110

Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
115 120 125

Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
130 135 140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
145 150 155 160

Ala Asp Gln Lys Arg Gly Lys Gln Thr Ala Arg Glu Met Lys Lys
165 170 175

Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
180 185 190

Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
195 200 205

Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
210 215 220

Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
225 230 235 240

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 245 250 255

Trp Lys

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<211> 192

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<213> Unknown

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<223> rat myosin light chain 1, atrial isoform

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<303> Nucleic Acids Res.

<304> 18

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<306> 1581-1586

<307> 1990-03-25

<400> 19

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Ala Pro Ala Pro Ala Pro Ala Pro Glu Pro Leu Arg Asp Ser
 20 25 30

Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
 35 40 45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly
 50 55 60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu
 65 70 75 80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro
 85 90 95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu
 100 105 110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu
 115 120 125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr
 130 135 140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys
 145 150 155 160

Met Ser Glu Ala Glu Val Glu Gln Leu Leu Thr Gly Gln Glu Asp Ala
 165 170 175

Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Val Met Ser Gly
180 185 190